

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082224\  
 Data File : VY019236.D  
 Acq On : 22 Aug 2024 21:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 23 02:00:13 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.367 | 0.313 | 14.7  | 88    | 0.00     |
| 3 P   | Chloromethane               | 0.661 | 0.509 | 23.0  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.817 | 0.584 | 28.5# | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.593 | 0.414 | 30.2# | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.530 | 0.372 | 29.8# | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.235 | 0.833 | 32.6# | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 0.267 | 0.254 | 4.9   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.549 | 0.504 | 8.2   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.538 | 0.536 | 0.4   | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.056 | 0.045 | 19.6  | 111   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.499 | 0.474 | 5.0#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.026 | 38.1# | 74    | 0.00     |
| 14 T  | Allyl chloride              | 0.663 | 0.691 | -4.2  | 111   | 0.00     |
| 15 T  | Acrylonitrile               | 0.109 | 0.112 | -2.8  | 105   | 0.00     |
| 16 T  | Acetone                     | 0.093 | 0.087 | 6.5   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.407 | 1.329 | 5.5   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 0.285 | 0.293 | -2.8  | 112   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.209 | 1.214 | -0.4  | 104   | 0.01     |
| 20 T  | Methylene Chloride          | 0.833 | 0.585 | 29.8# | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.557 | 0.538 | 3.4   | 102   | 0.01     |
| 22 T  | Diisopropyl ether           | 1.518 | 1.621 | -6.8  | 113   | 0.01     |
| 23 T  | Vinyl Acetate               | 1.202 | 1.265 | -5.2  | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.928 | 0.919 | 1.0   | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 0.150 | 0.148 | 1.3   | 102   | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.752 | 0.708 | 5.9   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.656 | 0.657 | -0.2  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.389 | 0.427 | -9.8  | 125   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.096 | 0.100 | -4.2  | 110   | 0.00     |
| 30 C  | Chloroform                  | 1.034 | 1.041 | -0.7# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 0.807 | 0.754 | 6.6   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.909 | 0.912 | -0.3  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.501 | 0.496 | 1.0   | 112   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.327 | 0.308 | 5.8   | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.449 | 0.429 | 4.5   | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.199 | 0.212 | -6.5  | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.520 | 0.493 | 5.2   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.576 | 0.495 | 14.1  | 97    | 0.00     |
| 40 TM | Benzene                     | 1.377 | 1.353 | 1.7   | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.109 | 0.122 | -11.9 | 116   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.372 | 0.364 | 2.2   | 107   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.402 | 0.398 | 1.0   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.360 | 6.3   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.307 | 0.268 | 12.7# | 98    | 0.00     |
| 46 T  | Dibromomethane              | 0.199 | 0.152 | 23.6  | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.488 | 0.376 | 23.0  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.179 | 0.144 | 19.6  | 86    | 0.01     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.177 | 0.917 | 22.1  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.213 | 0.173 | 18.8  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.904 | 0.751 | 16.9# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.405 | 0.357 | 11.9  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.487 | 0.371 | 23.8  | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.256 | 0.243 | 5.1   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.335 | 0.306 | 8.7   | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.418 | 0.416 | 0.5   | 109   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.159 | 0.135 | 15.1  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.147 | 0.148 | -0.7  | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.349 | 0.336 | 3.7   | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.248 | 0.238 | 4.0   | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.401 | 0.382 | 4.7   | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.437 | 0.412 | 5.7   | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.151 | 1.110 | 3.6   | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.405 | 0.384 | 5.2   | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.998 | 1.949 | 2.5#  | 109   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.793 | 0.767 | 3.3   | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.734 | 0.710 | 3.3   | 104   | 0.00     |
| 70 T  | Styrene                     | 1.252 | 1.233 | 1.5   | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.231 | 0.219 | 5.2   | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.832 | 3.807 | 0.7   | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.836 | 0.859 | -2.8  | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.682 | 0.651 | 4.5   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.493 | 0.493 | 0.0   | 111   | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.889 | 3.4   | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.581 | 4.481 | 2.2   | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.568 | 2.558 | 0.4   | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.122 | 3.069 | 1.7   | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.200 | 0.190 | 5.0   | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.672 | 2.649 | 0.9   | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.883 | 2.776 | 3.7   | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.112 | 3.051 | 2.0   | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.201 | 4.054 | 3.5   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.451 | 3.361 | 2.6   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.815 | 1.737 | 4.3   | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.804 | 1.689 | 6.4   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.146 | 3.024 | 3.9   | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.680 | 0.653 | 4.0   | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.596 | 1.525 | 4.4   | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.095 | 5.0   | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.900 | 0.827 | 8.1   | 94    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.469 | 0.476 | -1.5  | 102   | 0.00     |
| 95 T  | Naphthalene                 | 1.607 | 1.544 | 3.9   | 91    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.759 | 0.721 | 5.0  | 94    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6